

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
 US Department of Commerce
 United States Patent and Trademark
 Office, PCT
 2011 South Clark Place Room
 CP2/5C24
 Arlington, VA 22202
 ETATS-UNIS D'AMERIQUE
 in its capacity as elected Office

Date of mailing (day/month/year) 18 June 2001 (18.06.01)	
International application No. PCT/FI00/00822	Applicant's or agent's file reference BP100456
International filing date (day/month/year) 27 September 2000 (27.09.00)	Priority date (day/month/year) 29 September 1999 (29.09.99)
Applicant KANGAS, Timo, Juhani	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
 30 March 2001 (30.03.01)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was

☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland

Facsimile No.: (41-22) 740.14.35

Authorized officer

Claudio Borton

Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

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From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

BERGGREN OY AB
P.O. Box 16
FIN-00101 Helsinki
FINLANDE

Date of mailing (day/month/year) 04 April 2002 (04.04.02)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference BP100456	
International application No. PCT/FI00/00822	International filing date (day/month/year) 27 September 2000 (27.09.00)

1. The following indications appeared on record concerning:		
<input checked="" type="checkbox"/> the applicant	<input type="checkbox"/> the inventor	<input type="checkbox"/> the agent
<input type="checkbox"/> the common representative		
Name and Address TECNOMEN OY Finnoonniiitynkujä 4 FIN-02270 Espoo Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:		
<input type="checkbox"/> the person	<input checked="" type="checkbox"/> the name	<input checked="" type="checkbox"/> the address
<input type="checkbox"/> the nationality		
<input type="checkbox"/> the residence		
Name and Address TECNOMEN OYJ Finnoonniiitynkujä 4 FIN-02271 Espoo Finland	State of Nationality FI	State of Residence FI
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	
3. Further observations, if necessary:		
4. A copy of this notification has been sent to:		
<input checked="" type="checkbox"/> the receiving Office	<input type="checkbox"/> the designated Offices concerned	
<input type="checkbox"/> the International Searching Authority	<input checked="" type="checkbox"/> the elected Offices concerned	
<input type="checkbox"/> the International Preliminary Examining Authority	<input type="checkbox"/> other:	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Céline Faust Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference BP100456	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/FI 00/00822	International filing date (<i>day/month/year</i>) 27 Sept 2000	(Earliest) Priority Date (<i>day/month/year</i>) 29 Sept 1999
Applicant Tecnomen Oy et al.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 3a

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 00/00822

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: G06F 17/60, H04L 12/14, H04M 3/42

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: G06F, H04L, H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9722074 A1 (CYBERGOLD, INC.), 19 June 1997 (19.06.97), page 7 - page 10, claims 1-33, abstract	1,8
Y	--	2-7,9-10
Y	US 5870724 A (M.LAWLOR ET AL.), 9 February 1999 (09.02.99), claims 1-18, abstract	2-7,9-10
A	--	1,8
A	EP 0946061 A2 (AT & T CORP.), 29 Sept 1999 (29.09.99), see the whole document	1-10
	--	

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"I" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

4 January 2001

Date of mailing of the international search report

12 -01- 2001

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Roger Bou Faisal/LR

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 00/00822

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5333186 A (S.GUPTA), 26 July 1994 (26.07.94), cited in Application. See the whole document --	1-10
A	US 4850007 A (P.MARINO ET AL.), 18 July 1989 (18.07.89), cited in Application. See the whole document --	1-10
A	WO 9834392 A1 (GRATISTELEFON SVENSKA AB), 6 August 1998 (06.08.98), cited in Application. See the whole document --	1-10
A	US 5852775 A (M.HIDARY), 22 December 1998 (22.12.98), see the whole document -- -----	1,8

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/FI 00/00822

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	9722074	A1	19/06/97	AU	1415397 A	03/07/97
				CA	2240314 A	19/06/97
				EP	0934570 A	11/08/99
				IL	124832 D	00/00/00
				JP	2000501868 T	15/02/00
				US	5794210 A	11/08/98
				US	5855008 A	29/12/98

US	5870724	A	09/02/99	AT	182412 T	15/08/99
				AU	7038791 A	18/07/91
				CA	2069955 A	09/06/91
				DE	69033218 D,T	13/04/00
				EP	0504287 A,B	23/09/92
				US	5220501 A	15/06/93
				WO	9109370 A	27/06/91

EP	0946061	A2	29/09/99	NONE		

US	5333186	A	26/07/94	NONE		

US	4850007	A	18/07/89	AU	607233 B	28/02/91
				AU	1838588 A	05/01/89
				CA	1286759 A	23/07/91
				GB	2206265 A,B	29/12/88
				GB	8814596 D	00/00/00
				JP	1017553 A	20/01/89
				JP	1764247 C	28/05/93
				JP	4058221 B	16/09/92

WO	9834392	A1	06/08/98	AU	5887898 A	25/08/98
				BR	9707760 A	27/07/99
				BR	9806929 A	02/05/00
				CN	1246232 T	01/03/00
				EP	0958430 A	24/11/99
				EP	0963653 A	15/12/99
				NO	983938 A	27/10/98
				NO	993623 A	01/10/99
				PL	334835 A	27/03/00
				SE	9700334 A	04/08/98

US	5852775	A	22/12/98	NONE		

Claims

1. A method for distributing information or services through a network, comprising the steps of

- composing a piece of information or service to be distributed

5 - compiling (301, 301', 302, 601, 602) a list of intended recipients

- releasing (304, 304', 603) said piece of information or service so that it becomes accessible to the recipients appearing on said list,

characterized in that it comprises additionally the step of

10 - as a response to an indication (305, 401, 606) of a certain recipient having accessed (605) said piece of information or service, crediting (306, 608) an account associated with said certain recipient.

2. A method according to claim 1, characterized in that the step of crediting (306, 608) an account associated with said certain recipient comprises the substeps

15 of

- identifying an account representing the rights of said certain recipient to use certain services through said network and

- crediting said identified account.

20 3. A method according to claim 1, characterized in that the step of crediting (306, 608) an account associated with said certain recipient comprises the substeps of

- identifying an account the identifier of which has been intentionally provided by said certain recipient and

25 - crediting said identified account.

4. A method according to claim 1, characterized in that the step of releasing (304, 304', 603) said piece of information or service comprises the substep of indicating to at least part of the recipients appearing on said list that accessing said

30 piece of information or service will cause a certain account associated with said certain recipient to be credited.

5. A method according to claim 1, characterized in that the step of releasing said piece of information or service comprises the substep of transmitting (304, 304')

35 said piece of information or service to a number of subscriber terminals.

6. A method according to claim 1, characterized in that the step of releasing said piece of information or service comprises the substeps of

- storing (603) said piece of information or service to a place which is accessible for subscriber terminals through a network and
- transmitting to a number of subscriber terminals an indication (604) of said piece of information or service being available at said place.

5

7. A method according to claim 1, characterized in that the step of crediting an account associated with said certain recipient comprises the substeps of

- defining the time it has taken for said indication to be received and
- crediting said account by an amount which is inversely proportional to said time.

10

8. An arrangement for distributing information or services through a network (201), comprising

- a source of information or services (202, 701, 705)
- a number of subscriber terminals (203, 801)

15 - means (204, 1001, 1003) for maintaining accounts associated with certain subscribers,

characterized in that it comprises

- means (806) for providing an indication of a certain recipient having accessed a piece of information or service and

20 - means (708, 1004) for responding to said indication by crediting an account associated with said certain recipient.

9. An arrangement according to claim 8, characterized in that it comprises

- a service provider's terminal (202, 701)

25 - a database server (205, 901)

- an account server (204, 1001);

wherein said service provider's terminal (202, 701) is arranged to operate as said source of information or services, said account server (204, 1001) is arranged to operate as said means for maintaining accounts associated with certain subscribers, and said database server (205, 901) is arranged to maintain data identifying certain subscribers and associating the identified subscribers with certain contact information through which information or services is deliverable to the identified subscribers.

35 10. An arrangement according to claim 9, characterized in that it additionally comprises a service or information server (501, 1101) which is arranged to store pieces of information or services in a form accessible to subscriber terminals.

WO 01/24071 A1



Published:

— *With international search report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

PATENTTI- JA REKISTERIHALLITUS

Patentti- ja innovaatiolinja

TUTKIMUSRAPORTTI

Finnish Search Report

PATENTTIHAKEMUS
NRG Appln No
19992084

LUOKITUS
Classification
H04M 3/487, G06F 17/60, G06K 5/00

TUTKITTU AINEISTO

Patenttijulkaisukokoelma (FI, SE, NO, DK, DE, CH, EP, WO, GB, US), tutkitut luokat

H04M, G06F, G06K, H04Q

Tiedonhaut ja muu aineisto

Tiedonhaunja EPO:n tietokannoista: Espadoc, WPI, PAI, EPO:n fulltext tietokannat

VHTEJULKAISUT

Kategoria*) Category	Julkaisun tunnistetiedot Identification data of the publication	Koskee vuotimuksin
X	WO 97/22074 - A1; G06F 17/60; 19.6.1997; Cybergold, Inc.	1, 2, 3, 5, 8, 9, 10
Y	US 5870030; G06K 5/00; 9.2.1999; Motorola, Inc.	1, 8
Y	US 5852775; H04Q 7/22; 22.12.1998; Eathweb, Inc.	1, 5, 6, 8, 9, 10
A	WO 98/56154 - A1; H04M 1/64; 10.12.1998; Broadpoint Communications, Inc.	
A	WO 98/34189 - A1; G06F 17/60; 6.8.1998; Flycast Communications Corporation	

- *) X Patentoitavuuden kannalta merkittävä julkaisu yksinään tarkasteltuna
Y Patentoitavuuden kannalta merkittävä julkaisu, kun otetaan huomioon tämä ja yksi tai useampi samaan kategoriaan kuuluva julkaisu
A Yleistä tekniikan tasoa edustava julkaisu, ei kuitenkaan patentoitavuuden este

Päiväys

8.3.2001

Tutkija

Kimmo Pirinen

PATENT COOPERATION TREATY

PCT

REC'D 22 JAN 2002

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

12

Applicant's or agent's file reference BP100456/MB	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FI00/00822	International filing date (day/month/year) 27.09.2000	Priority date (day/month/year) 29.09.1999
International Patent Classification (IPC) or national classification and IPC ₇ G06f 17/60, H04L 12/14, H04M 3/42		
Applicant Tecnomen Oy et al		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>3</u> sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 30.03.2001	Date of completion of this report 07.01.2002
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. 08-667 72 88	Authorized officer Roger Bou Faisal /OGU Telephone No. 08-782 25 00

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI00/00822

I Basis of the report**1. With regard to the elements of the international application:***☐ the international application as originally filed☒ the description:pages 1-17, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the claims:

pages _____, as originally filed

pages _____, as amended (together with any statement) under article 19

pages _____, filed with the demand

pages 18-20, filed with the letter of 20.11.2001☒ the drawings:pages 1-8, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).**3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:**☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.**4. ☐ The amendments have resulted in the cancellation of:**☐ the description, pages _____☐ the claims, Nos. _____☐ the drawings, sheet/fig _____**5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2 (c)).****

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/FI00/00822

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-10</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-10</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-10</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the international search report:

[D1] WO 9722074
 [D2] US 5870724
 [D3] EP 0946061
 [D4] US 5333186
 [D5] US 4850007
 [D6] US 5852775
 [D7] WO 9834392
 [D8] US 5870030

The method in D1 involves generating a consumer interest profile for a customer and provides information for distribution to consumers. The interest profile is compared with the provided information. Based on the comparison it is determined whether the consumer interest profile matches the provided information. If the determination shows a match, the information is automatically delivered to the customer. The customer is compensated for paying attention to the information. The compensation is performed as an electronic compensation transaction, and is a conditioning compensation based on the successful completion of one or more further events. The method relates to techniques for delivering information electronically and to techniques for delivering positively and negatively priced intellectual property, including advertising. It also provides mechanisms for attention brokerage and establishing markets that allow advertisers to compete for attention of particular consumer or group of consumers, thereby maximising efficiency and creating value (Abstract; page 7-page 10 and claims 1-33).

D2 relates to a method and system for distributing financial and other services to remote locations, and more specifically, providing banking type financial transaction handling via

.../...

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V.

1(2)

remote data terminals located in users' homes, offices or other locations (i.e., "home banking" or "remote banking"). Still more specifically, one aspect of the invention involves using the ATM (automatic teller machine) network (interchange) as a data communications network for conducting banking financial transactions from homes and offices (abstract and claims).

D3 reveals a method and apparatus for providing a communication service in which sponsors pay for communication services initiated by a caller. A caller may invoke the service by entering only the telephone number identifying the desired connection. A communication switch interprets the digits entered by the caller, determines whether the caller wishes to invoke the advertiser supported communication service and if so plays a message to the caller. At the end of the message the communication switch completes the desired connection.

D4 relates to a sponsored-call service feature that enables callers to obtain network-provided telecommunication services toll-free or at a subsidised rate. The sponsored-call service permits a third party sponsor to convey commercial messages to and interact with a caller prior to the caller's access to the network-provided services. After the caller's interaction with the sponsor, the network gives the caller a sponsored-specified restricted access to the network-provided services.

D5 reveals a system that provides an economical telephone toll service where telephone subscribers select the economical service by sending an appropriate signal, and then dials his directory assistance call or other telephone toll call.

The method in D6 involves connecting the telephone of a first subscriber to the telephone of a second subscriber, via a standard telephone network. The first subscriber dials a subscriber number, preceded by a prefix, which leads to a third subscriber.

In D7 cellular telephone system, is provided with an ad server and a memory for holding various commercial messages. The messages are either generic, or are tailored for specific demographically selected subscribers, or geographic cells. When communication is established either between a subscriber or a non-subscriber, at least one of them gets either a generic or a specific commercial message.

.../...

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V.

2(2)

Documents D3-D7 are state of the art documents that are used to give a better perspective for understanding the claimed invention.

The invention according to independent amended claims 1 and 8 differs from D1 by compiling a list of intended recipients and by releasing the piece of information or service, in the right form of transmission, so that it becomes accessible to the recipients appearing on said list. Both systems are based on compensating a subscriber for paying attention to a certain advertisement. Also that the compensation (crediting) is made as a response to an indication of that the recipient has accessed the information is mentioned in D1. It is mentioned in D1, that an icon or some other indication can be sent to a consumer allowing the consumer to choose whether to access the information or not, and upon accessing the information being compensated therefore. It is not considered obvious to a person skilled in the art to reach the claimed invention only with reference to D1 nor by the combination of D1 and D2.

It is not clearly mentioned in D1 that a time-based compensation can be implemented, or that the service provider operates as a source of information or services. The service provider functions are however clearly mentioned in D2.

D8 is a document that the applicant wants to point at and which came to the attention of the applicant through an Office Action from the Finish Patent Office. D8 discloses a method and an arrangement for actively distributing user-beneficial advertisements to the portable pagers of a numbers of users. The advertiser places his advertisement messages into an advertisement buffer of the paging service provider, which then transmits selected advertisement messages to the users' pagers. However, this document also fails to explicitly disclose a specifically composed list of intended recipients: Also the transmission of information in the right form is not mentioned.

Thus, the invention according to claims 1-10 is novel, is considered to involve an inventive step and to have industrial applicability.